

ABSTRACT OF THE DISCLOSURE

Braces for bracing objects in structures against forces due to earthquakes are tested by subjecting components of the braces for attaching the braces to the object or structure to cyclic loading of approximately 15 cycles. The cyclic forces are applied to different samples of the components at differing angles, and a load rating is determined for each angle. Prior to cyclic testing, forces are applied monotonically to the components in both tension and compression, the flexible loading direction of the component is determined from the monotonic testing, and the deformation that the component can resist when a load is applied in cycles is estimated from the monotonic testing.